

Name: ANSWER KEY

Period: \_\_\_\_\_

Date: \_\_\_\_\_

### Lesson 3 Review (for quiz)

1.  $3x + 8 - x$

$$\begin{array}{r} 3x - x + 8 \\ \hline 2x + 8 \end{array}$$

2.  $2(x - 3)$

$$\begin{array}{r} 2(x - 3) \\ 2x + 2(-3) \\ 2x + -6 \\ \hline 2x - 6 \end{array}$$

3. List all the terms and like terms in the following expression:

$$6n + 15xy - 3n - 2yx + 4y$$

Terms:  $6n, 15xy, -3n, -2yx, 4y$

Like Terms:  $6n, -3n, 15xy, -2yx$

Simplify the expression:

$$\begin{array}{r} 6n + 15xy + -3n + -2yx + 4y \\ 6n + -3n + 15xy + -2yx + 4y \\ \hline 3n + 13xy + 4y \end{array} *$$

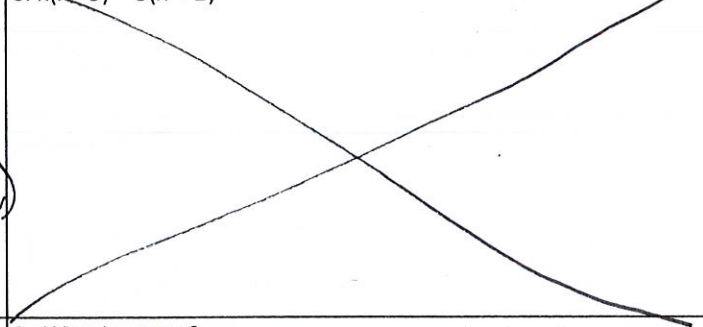
4.  $-4(2 + x) - 2(y + 3)$

$$\begin{array}{r} -4(2 + x) - 2(y + 3) \\ -4(2) + -4(x) + -2(y) + -2(3) \\ -8 + -4x + -2y + -6 \\ -4x + -2y + -6 + -8 \\ -4x + -2y + -14 \\ \hline -4x - 2y - 14 \end{array}$$

5.  $x + yx - 6xy + 7y - 8x + 2(x + y)$

$$\begin{array}{r} x + yx - 6xy + 7y - 8x + 2x + 2y \\ x + yx + -6xy + 7y + -8x + 2x + 2y \\ (x + -8x + 2x) + (yx + -6xy) + (7y + 2y) \\ -7x + 2x \\ \hline -5x + -5xy + 9y \end{array} *$$

6.  $x(x + 5) - 3(x + 2)$



7.  $13(3y) + 7x - 4(y + 11)$

$$\begin{array}{r} 39y + 7x + -4(y) + -4(11) \\ 39y + -4y + 7x + -44 \\ \hline 35y + 7x + -44 \\ \hline 35y + 7x - 44 \end{array}$$

8. What is a term?

a number or the product of a number and a variable

What is a constant?

a term without a variable  
(a lonely number)

What are like terms?

terms that have identical variables

Remember  $2yx = 2 \cdot y \cdot x = 2 \cdot x \cdot y = 2xy$